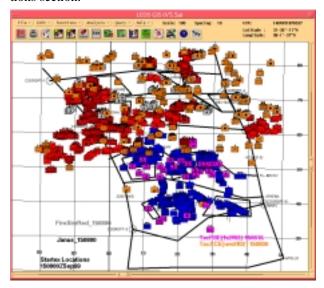
AAR PRODUCTS

DCARS products allow the analysts and trainers to compare the information collected from the C4I systems with the ground truth information from either live instrumentation systems or from simulations driving an event. Currently, the DCARS can operate with the Corps Battle Simulation (CBS), any of the federation of Distributed Interactive Simulations (DIS), or a message generator or simulation interface. In addition, these products permit comparison of situational awareness (SA) information, such as unit locations and tactical graphics, between C4I system workstations at different command posts or between different C4I workstations at the same command post. For example, the analysts can compare the unit locations displayed on the C4I systems at the Intelligence section with the unit location data from the systems at the Operations section.



The DCARS can record **air tracks** for playback or display on a Geographic Information System and archive transient information from C4I and simulation systems for immediate or post-event analysis.

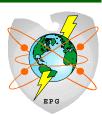
Currently, the DCARS cannot remotely capture display screens. This is a goal for a future version. However, after capturing and saving the image files, DCARS has a system to make the images available via the Intranet Web Site to all analysts. The analyst can then use these picture images in their AAR products.

EMPLOYMENT

The DCARS is a **fielded system** that has been used in numerous training and testing events. These include the Task Force XXI Army Warfighting Experiment (AWE), the Division AWE, BCTP Corp- and Division-level Warfighter Exercises, Prairie Warrior training exercises, Army Experiment 5, and various ABCS operational and technical tests, the latest being the Force XXI Battle Command-Brigade and Below (FBCB2) Functional Test 3, in January 2001.

The latest fielded version of DCARS has been employed in support of the data collection for Rotation 00-10 at the National Training Center (NTC), Fort Irwin, California, 19-31 August 2000. The same version was also employed in support of the Joint Contingency Force (JCF) AWE conducted at the Joint Readiness Training Center (JRTC), Fort Polk, Louisiana, 5-21 September 2000. The Operational Test Command has tasked DCARS to support data collection and analysis requirements for the Division Capstone Exercise (DCX).

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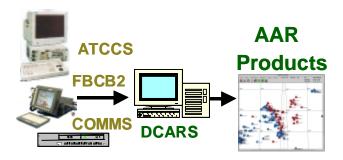
DCARS



Window to **Information Operations**

DESCRIPTION

The Digital Collection, Analysis, and Review System (DCARS) is a data collection and analysis system that is part of the US Army command, control, communications, computers and intelligence (C4I) Tool Kit. The DCARS combines a **data collection system** with an **after-action review** (AAR) system to provide a tool for both operational and technical data analysis. The DCARS links the digitized force with an AAR system to provide feedback for **training and testing** analysts as well as tactical unit commanders.



The DCARS provides information from the C4I systems within the tactical command posts without interfering with their operation. It **captures digital message traffic** on the Tactical Internet including United States Message Text Format (USMTF), Joint Variable Message Format (JVMF), and stovepipe system messages. It **unloads data** from Army Tactical Command and Control System (ATCCS) databases. It **copies selected files** from C4I system directories and **collects selected web page** information from these systems. The DCARS permits active browsing of C4I system web sites and viewing of captured screen images.

In addition to the C4I systems, the DCARS collects data from **simulation systems** used to drive training events and from Combat Instrumentation Systems (CIS) used to track live player entities. Using all this collected information, the DCARS produces graphical, textual, tabular, and exportable information in **near real-time**.

The DCARS is a proven data collection and AAR system used to support both training and testing. It is **compliant** with the Defense Information System Common Operating Environment (DII COE).

MESSAGE CAPTURE

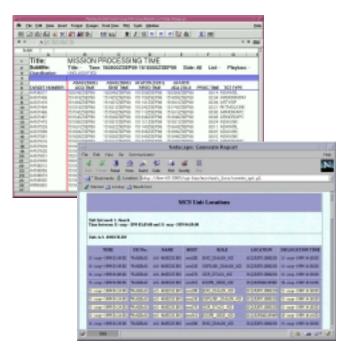
The DCARS captures digital message traffic on **local and** wide area networks. and allows annalyst to display, print, and copy their contents. Analysts can search for desired messages, or set up **parameters** to have desired messages delivered to their inbox for inspection.



The DCARS **extracts the contents** of some message types and stores the data in its database. This data includes both friendly and hostile unit locations and battlefield graphics, which DCARS can **plot** or use in producing AAR reports.

DATABASE COLLECTION

The DCARS unloads data from selected fields in the C4I system databases and from simulation and live-player instrumentation. It stores this data in its own database for near real-time retrieval and analysis and to prepare AAR products. This data includes location information for units and supply activities, overlays and tactical graphics, fire mission and target information, personnel and equipment resource status, and attack criteria.



WEB BROWSING

The DCARS permits **active browsing** on the web sites of tactical C4I system workstations via the Tactical Internet. The ABCS makes extensive use of web sites for storing critical operational information such as **orders** and plans, **status reports**, and imagery. Often this information is unavailable from any other source. The application provides all **standard browsing features** such as saving to the local platform, printing, and copying and pasting selected portions.